

Amendments to the Claims

Claims 1-72 are cancelled.

Claim 73 (currently amended): A transgenic plant expressing a recombinant animal viral antigen protein, said protein capable of inducing a mucosal immune response when administered being antigenic to a human or an animal.

Claim 74 (original): The plant of claim 73 wherein said protein is chimeric by being fused to another peptide, polypeptide or protein.

Claim 75 (original): The plant of claim 73 wherein said plant is a tomato plant.

Claim 76-82 (cancelled)

Claim 83 (currently amended): A transgenic plant expressing a recombinant animal viral antigen protein, said protein expressed at a level of about .03% 3-10 ng/mg or more of total soluble protein.

Claim 84 (currently amended): The plant of claim 83 wherein said protein is expressed at a level of about 0.05% 25-65 ng/mg or more.

Claims 85-87 (cancelled)

D2
Claim 88 (currently amended): The transgenic plant of claim 73, said plant comprising plant tissue, wherein the plant tissue, when is administered orally administered to the animal, elicits an antigenic response.

Claim 89 and 90 (cancelled)

Claim 91 (original): The transgenic plant of claim 73 comprising plant tissue, wherein at least some of the plant tissue is edible by animals.

Claim 92-97 (cancelled)

D3
Claim 98 (currently amended): A transgenic plant having plant tissue wherein said plant tissue is expressing a recombinant protein, said protein expressed at a level such that when said plant tissue is orally administered to the animal, an a mucosal immune response is elicited against an animal viral antigen.

Claim 99 (previously amended): A plant comprising a viral antigen which triggers production of antibodies and which is derived from a hepatitis B virus surface antigen or transmissible gastroenteritis virus spike protein, said antigen being a product produced by the method of: expressing said immunogen in a transgenic plant, said transgenic plant being in a form chosen from the group consisting of a whole plant, plant part, or a crude plant extract.

D4
Claim 100 (currently amended): A plant comprising a protein which triggers production of antibodies a mucosal immune response to a viral protein, said protein being a product produced by the method of: expressing said protein in a transgenic plant, said transgenic plant being in a form chosen from the group consisting of a whole plant, plant part, or a crude plant extract.